Specifications

TERMINATION DETAIL
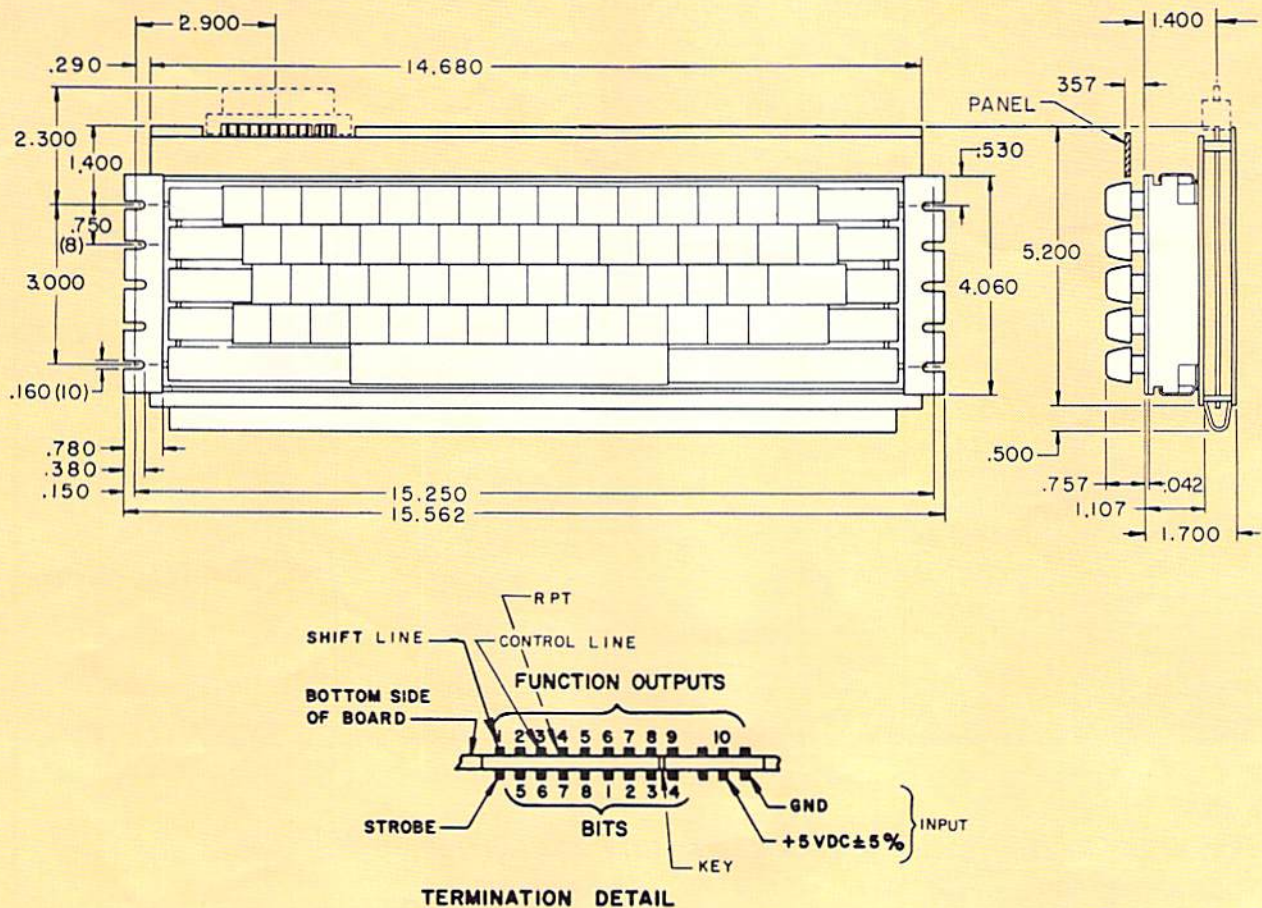
POWER REQUIREMENTS

+5 volts DC regulated ±5%
1 ampere maximum

OUTPUT LEVELS

Negative logic: +5 volt DTL compatible
Logic "0": +2.6 VDC minimum @ 0.12 milliamp
Logic "1": +0.45 VDC maximum @ 12 milliamps

FUNCTION KEY OUTPUTS

Key Operated: +3.15 VDC minimum @ 1 to 10
milliamps current source
Key Unoperated: +0.25 VDC maximum with load resistance of 2,500 ohms or less.

STROBE OUTPUT LEVELS

All keys in unoperated state: +2.6 VDC minimum @
0.12 milliamps
One Key Operated: +0.45 VDC maximum @ 12.0 milliamps
Two-Key Rollover Condition: +2.6 VDC @ 0.12 milliamps

KEY ASSIGNMENTS

54 keys encoded USASCII
1 control key
2 shift keys
1 shift lock key
1 space bar

OUTPUT INTERFACE

Card-edge output accepts standard connectors such as:
Cinch-Jones 251-12-30-160. This connector is furnished
with a between contact key.
Winchester 8BD 12. This connector has a between
contact key but it has a separate catalog listing
109-8597.
An equivalent connector may be used.

WEIGHT

With Enclosure: 9 lbs. (approximately)
Without Enclosure: 3.75 lbs (approximately)

BUTTONS

MICRO SWITCH double shot-molded truncated buttons,
gray with white legends.

KEY ROW OFFSET

3/8 — 3/16 — 3/8 inch offset between rows. (Keys
on 3/4 inch centers)

BUTTON ORIENTATION

Sloped 13 degrees to horizontal.

OPTIONS INCLUDED

Two Key Rollover
Strobe (non delayed)
Shift Lock
Enclosure

SYSTEM CONTROL

A shift line and control line are provided to permit programming of your system to initiate keyboard shift. These lines can also be used for mode indication within your system.

1. **Shift Operation:** Shift of the keyboard can be initiated from your system by providing a current source input of 3.15 Volts DC minimum @ 10 milliamps maximum to shift line termination pad (see termination detail). An open circuit (100 microamps maximum leakage) is required for the unshifted mode. The shift line must not be clamped to ground.

2. **Control Operation:** Control mode operation can be initiated from your system by using the control line termination pad. The electrical load information listed above for shift operation will also apply to control operation.

3. **Mode Indication:** The shift line and control line can also be used for mode indication to your system, provided that the system circuit load resistance is greater than 2,000 ohms to ground or 200,000 ohms to the positive supply. (An external emitter follower circuit with a current sinking resistor can be used to increase the load driving capability.)

Code Assignment

Note: Control Character US Deleted

USASCII Odd Parity

KEY NO.	UNSHIFTED MODE 765	BITS 4321	P	SHIFTED MODE 765	BITS 4321	P	CONTROL MODE 765	BITS 4321	P
3	000	1000	0	000	1000	0	000	1000	0
4 (1)	011	0001	0	010	0001	1	011	0001	0
5 (2)	011	0010	0	010	0010	1	011	0010	0
6 (3)	011	0011	1	010	0011	0	011	0011	1
7 (4)	011	0100	0	010	0100	1	011	0100	0
8 (5)	011	0101	1	010	0101	0	011	0101	1
9 (6)	011	0110	1	010	0110	0	011	0110	1
10 (7)	011	0111	0	010	0111	1	011	0111	0
11 (8)	011	1000	0	010	1000	1	011	1000	0
12 (9)	011	1001	1	010	1001	0	011	1001	1
13 (0)	011	0000	1	011	0000	1	011	0000	1
14 (-)	010	1101	1	011	1101	0	010	1101	1
15 ([)	101	1011	0	111	1011	1	001	1011	1
16 (])	101	1101	0	111	1101	1	001	1101	1
17	000	1001	1	000	1001	1	000	1001	1
23 (RPT)	FUNCTION OUTPUT								
24 (Q)	111	0001	1	101	0001	0	001	0001	1
25 (W)	111	0111	1	101	0111	0	001	0111	1
26 (E)	110	0101	0	100	0101	0	000	0101	1
27 (R)	111	0010	1	101	0010	0	001	0010	1
28 (T)	111	0100	1	101	0100	0	001	0100	1
29 (Y)	111	1001	0	101	1001	1	001	1001	0
30 (U)	111	0101	0	101	0101	1	001	0101	0
31 (I)	110	1001	1	100	1001	0	000	1001	1
32 (O)	110	1111	1	100	1111	0	000	1111	1
33 (P)	111	0000	0	101	0000	1	001	0000	0
34 (@)	100	0000	0	110	0000	1	000	0000	1
35	101	1100	1	111	1100	0	001	1100	0
36	101	1111	1	101	1111	1	001	1111	1
37 (DEL)	111	1111	0	111	1111	0	001	1111	0

KEY NO.	UNSHIFTED MODE 765	BITS 4321	P	SHIFTED MODE 765	BITS 4321	P	CONTROL MODE 765	BITS 4321	P
43	SHIFT LOCK*								
44 (A)	110	0001	0	100	0001	1	000	0001	0
45 (S)	111	0011	0	101	0011	1	001	0011	0
46 (D)	110	0100	0	100	0100	1	000	0100	0
47 (F)	110	0110	1	100	0110	0	000	0110	1
48 (G)	110	0111	0	100	0111	1	000	0111	0
49 (H)	110	1000	0	100	1000	1	000	1000	0
50 (J)	110	1010	1	100	1010	0	000	1010	1
51 (K)	110	1011	0	100	1011	1	000	1011	0
52 (L)	110	1100	1	100	1100	0	000	1100	1
53 (;)	011	1011	0	010	1011	1	011	1011	0
54	011	1010	1	010	1010	0	011	1010	1
55 (^)	101	1110	0	111	1110	1	001	1110	0
56 (Cr)	000	1101	0	000	1101	0	000	1101	0
63	CONTROL*								
64	SHIFT*								
65 (Z)	111	1010	0	101	1010	1	001	1010	0
66 (X)	111	1000	1	101	1000	0	001	1000	1
67 (C)	110	0011	0	100	0011	1	000	0011	0
68 (V)	111	0110	0	101	0110	1	001	0110	0
69 (B)	110	0010	0	100	0010	1	000	0010	0
70 (N)	110	1110	0	100	1110	1	000	1110	0
71 (M)	110	1101	0	100	1101	1	000	1101	0
72 (,)	010	1100	0	011	1100	0	010	1100	0
73 (.)	010	1110	0	011	1110	0	010	1110	1
74 (/)	010	1111	0	011	1111	1	010	1111	0
75	SHIFT*								
76	000	1010	1	000	1010	1	000	1010	1
81	010	0000	0	010	0000	0	010	0000	0

*See System Control